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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23505

7590

08/26/2008

EXAMINER

STEPHENSON, DANIEL P

ART UNIT

PAPER NUMBER

3676

DATE MAILED: 08/26/2008

CONLEY ROSE, P.C. David A. Rose P. O. BOX 3267 HOUSTON, TX 77253-3267

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597.481	07/27/2006	Ronald G. Earles	1391-63408	1759

TITLE OF INVENTION: ROTARY VECTOR GEAR FOR USE IN ROTARY STEERABLE TOOLS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including delow or directed off tions.	ng the Patent, advance onerwise in Block 1, by (	rders and notification of a specifying a new corre	naintenance fees v spondence address	will be ; and/or	mailed to the current of (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
23505	7590 08/26	5/2008	114.1			<u> </u>	niccian
CONLEY ROSE, P.C. David A. Rose P. O. BOX 3267				Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
HOUSTON, TX	77253-3267						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/597,481	07/27/2006	-	Ronald G. Earles			1391-63408	1759
TITLE OF INVENTION	: ROTARY VECTOR G	EAR FOR USE IN ROT	ARY STEERABLE TOOI	.s			
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nonprovisional	NO	\$1440	\$300	\$0		\$1740	11/26/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	]			
STEPHENSO	N, DANIEL P	3676	175-082000				
CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto- listed, no name will be	the name of a single firm (having as a member a tered attorney or agent) and the names of up to istered patent attorneys or agents. If no name is 1, no name will be printed.			
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	assignment. 7 and STATE OR 0	COUNT	TRY)	
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporati	on or other private grou	up entity 🖵 Government
4a. The following fee(s)	are submitted:	4	<ul> <li>b. Payment of Fee(s): (Plessed)</li> <li>A check is enclosed.</li> </ul>	se first reapply a	ny prev	viously paid issue fee s	hown above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)			A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.				
			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicated		_				D 1 27(-)(2)
NOTE: The Issue Fee an	d Publication Fee (if rea	uired) will not be accepte	b. Applicant is no loned from anyone other than t				
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.				
Authorized Signature				Date			
Typed or printed name				_			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es 7 depending upon the individe Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES	the publ minutes omment Traden S. SENI	lic which is to file (and is to complete, including is on the amount of time mark Office, U.S. Depan D TO: Commissioner for	by the USPTO to process), gathering, preparing, and the you require to complete the trunent of Commerce, P.O. or Patents, P.O. Box 1450,

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10/597,481	07/27/2006	Ronald G. Earles	1391-63408	1759	
23505 75	90 08/26/2008		EXAM	INER	
CONLEY ROSE, P.C.			STEPHENSON, DANIEL P		
David A. Rose			ART UNIT	PAPER NUMBER	
P. O. BOX 3267 HOUSTON, TX 77253-3267			3676		
1100310N, 1A /	1233-3201		DATE MAILED: 08/26/2008		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 334 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 334 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/597,481	EARLES ET AL.				
Notice of Allowability	Examiner	Art Unit				
	DANIEL P. STEPHENSON	3676				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. X This communication is responsive to the application filed 7/26/06.						
2. The allowed claim(s) is/are <u>1-21</u> .						
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unanal  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	been received. been received in Application No					
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.						
(a) ☐ including changes required by the Notice of Draftspers		948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<del>-</del> ·					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	igs in the front (not the back) of d).				
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ol>						
Attachment(s)	5 <b>–</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Date	e				
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. 🛛 Examiner's Amendn	nent/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ul><li>8.</li></ul>	nt of Reasons for Allowance				

Application/Control Number: 10/597,481 Page 2

Art Unit: 3676

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 To ensure consideration of such an amendment, it MUST be submitted no later than the

The application has been amended as follows:

In the Claims:

payment of the issue fee.

On line 1 of claim 1, the terms "A Rotary Vector Gear" have been changed to --A rotary vector gear--.

On line 1 of claim 11, the terms "A Rotary Vector Gear" have been changed to --A rotary vector gear--.

On line 1 of claim 19, the terms "A Rotary Vector Gear" have been changed to --A rotary vector gear--.

2. The following is an examiner's statement of reasons for allowance: the prior art does not teach or fairly suggest the combination of two eccentric housings attached to a cycloid disc which is located within an inner cycloid ring which is attached to a housing for controlling an axis relative to a reference axis as uniquely claimed in the present combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL P. STEPHENSON whose telephone number is (571)272-7035. The examiner can normally be reached on 8:30 - 5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer Gay can be reached on (571) 272-7029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer H Gay/ Supervisory Patent Examiner, Art Unit 3676